## United States Patent [19]

### Shashoua

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[54] GABA ESTERS AND GABA ANALOG ESTERS

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### Related U.S. Application Data

[63] Continuation of Ser. No. 767,903, Aug. 15, 1985, abandoned, which is a continuation-in-part of Ser. No. 519,361, Aug. 1, 1983, abandoned, and Ser. No. 640,507, Jul. 24, 1984, abandoned.

[51] Int. Cl.<sup>5</sup> ...... A61K 31/225; A61K 31/235; A61K 31/24; A61K 31/22

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#### [57] ABSTRACT

Ester derivatives of gamma-aminobutyric acid (GABA) and GABA analogues which cross the blood-brain barrier are disclosed, as well as methods of synthesizing and using the compounds.

The ester derivatives have the formula:

where A is a radical compound having at least one esterifiable OH group; n varies from one to the total number of esterifiable OH group contained in A; and  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  are hydrogen or a substituent.

### 73 Claims, 2 Drawing Sheets